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TITLE: Vibration driven motor with shape memory alloy for
the rotor/stator
interface

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ABSTRACT:

<CHG DATE=19980116 STATUS=N> The vibrator includes the stator (1) mounted on a body (2), and the rotor (4) on an axis (3) driven by frictional contact with the stator as the latter undergoes deformation. The face of the stator carries a ring of piezoceramic elements (5) excited for this purpose in a harmonic mode by a sinusoidal voltage.

The regions of contact between the stator and rotor are coated (6) with a few millimetres of copper-zinc-aluminium alloy, extended into a number of e.g.

circular studs defined by cavities machined in the shape memory alloy coating, or bonded between two such coatings.